

Chemistry Intro Unit Study Guide

1. Describe the differences between a chemical and physical change. Provide 2 examples of each.

2. Construct the Bohr Model for the following:

Li

C

Na

P

Ar

3. Determine the number of protons, neutrons, and electrons for the following isotopes:

C-14

O-18

F-20

4. Determine the electron configuration for the following:

B

Ne

Mg

Cl

5. Bond the following (make sure you know if it is covalent or ionic) (you need to show the dots if it is covalent and the charges if it is ionic):

C Br

Al Cl

H F

Co (III) O

Ca Nitrate

K Sulfate

P F

Pb (II) O

Ni (III) Cl

B Cl

H O

Na Br

Ag O

Hg (I) N

Sn (IV) Cl

Zn Cl

N

6. During our mystery powder lab, how did you determine if something was an acid or base?